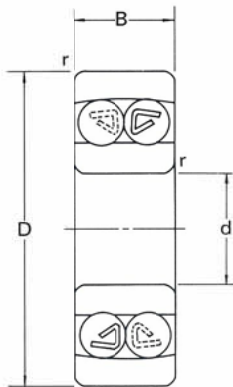
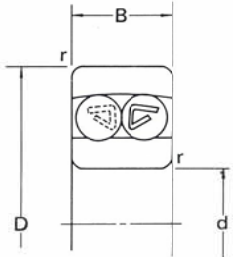


SELF-ALIGNING BALL EBEARINGS
100 SERIES
12000 SERIES
RL SERIES



BEARING NUMBER	Dimensions mm inches							
	BORE	O.D.	WIDTH	CHAMFER	BALLS		LOAD RATINGS	
	d	D	B	r min.	NO.	SIZE	DYNAMIC C (kgf/lbf)	STATIC Co (kgf/lbf)
135	5.000	19.000	6.000	0.30	16	3.175	258	49
	.1969	.7480	.2362	.012		1-8	569	108
12306	6.000	15.000	5.000	0.30	20	2.381	136	27
	.2362	.5906	.1968	.012		3-32	300	60
126	6.000	19.000	6.000	0.30	16	3.175	258	49
	.2362	.7480	.2362	.012		1-8	569	108
127	7.000	22.000	7.000	0.30	22	3.175	280	61
	.2756	.8661	.2756	.012		1-8	617	134
12308	8.000	18.000	5.000	0.30	24	2.500	193	51
	.3150	.7087	.1969	.012		.0984	425	112
108	8.000	22.000	7.000	0.30	22	3.175	280	61
	.3150	.8661	.2756	.012		1-8	617	134
129	9.000	26.000	8.000	0.60	20	3.969	425	91
	.3543	1.0236	.3150	.024		5-32	937	201
12310	10.000	23.000	7.000	0.30	22	3.175	280	61
	.3937	.9055	.2756	.012		1-8	617	134
RL4	12.700	33.338	11.112	0.60	20	4.762	590	154
	.5000	1.3125	.4375	.024		3-16	1300	340
RL5	15.875	39.688	11.112	0.60	24	5.556	827	252
	.6250	1.5625	.4375	.024		7-32	1823	556

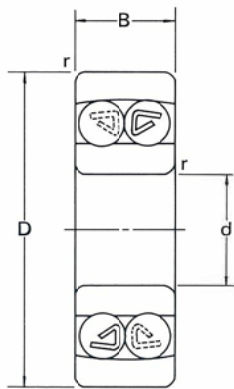
SELF-ALIGNING BALL BEARINGS
12 SERIES
13 SERIES
22 SERIES



BEARING NUMBER	Dimensions mm inches							
	BORE	O.D.	WIDTH	CHAMFER	BALLS		LOAD RATINGS	
	d	D	B	r min.	NO.	SIZE	DYNAMIC C (kgf/lbf)	STATIC Co (kgf/lbf)
1200	10.000	30.000	9.000	0.60	18	4.762	570	121
	.3937	1.1811	.3543	.024		3-16	1257	267
1201	12.000	32.000	10.000	0.60	20	4.762	580	130
	.4724	1.2598	.3937	.024		3-16	1279	287
1202	15.000	35.000	11.000	0.60	20	5.556	775	179
	.5906	1.3780	.4331	.024		7-32	1709	395
1203	17.000	40.000	12.000	0.60	24	5.556	815	205
	.6693	1.5748	.4724	.024		7-32	1797	452
1204	20.000	47.000	14.000	1.00	24	6.350	1020	266
	.7874	1.8504	.5512	.040		1-4	2249	586
1205	25.000	52.000	15.000	1.00	24	7.144	1250	335
	.9843	2.0472	.5906	.040		9-32	2755	739
1300	10.000	35.000	11.000	0.60	18	5.556	750	165
	.3937	1.3780	.4331	.024		7-32	1653	364
1301	12.000	37.000	12.000	1.00	18	6.350	985	221
	.4724	1.4567	.4724	.040		1-4	2171	487
1302	15.000	42.000	13.000	1.00	20	6.350	990	234
	.5906	1.6535	.5118	.040		1-4	2183	516
1303	17.000	47.000	14.000	1.00	22	7.144	1300	325
	.6693	1.8504	.5512	.040		9-32	2866	717
1304	20.000	52.000	15.000	1.10	24	7.144	1280	340
	.7874	2.0472	.5906	.430		9-32	2822	750
2200 *	10.000	30.000	14.000	0.60	18	5.556	760	162
	.3937	1.1811	.5512	.024		7-32	1676	357
2201 *	12.000	32.000	14.000	0.60	20	5.556	790	177
	.4724	1.2593	.5512	.024		7-32	1742	390
2202 *	15.000	35.000	14.000	0.60	22	5.556	795	188
	.5906	1.3780	.5512	.024		7-32	1753	414
2203 *	17.000	40.000	16.000	0.60	22	6.350	1010	247
	.6693	1.5748	.6299	.024		1-4	2227	545
2204 *	20.000	47.000	18.000	1.10	24	7.144	1310	340
	.7874	1.8504	.7087	.043		9-32	2888	750
2205 *	25.000	52.000	18.000	1.00	26	7.144	1270	350
	.9843	2.0472	.7087	.040		9-32	2800	772
2206 *	30.000	62.000	20.000	1.00	28	7.938	1560	460
	1.1811	2.4409	.7874	.039		5-16	3439	1014

* Rubber Seals type available
* M cage only

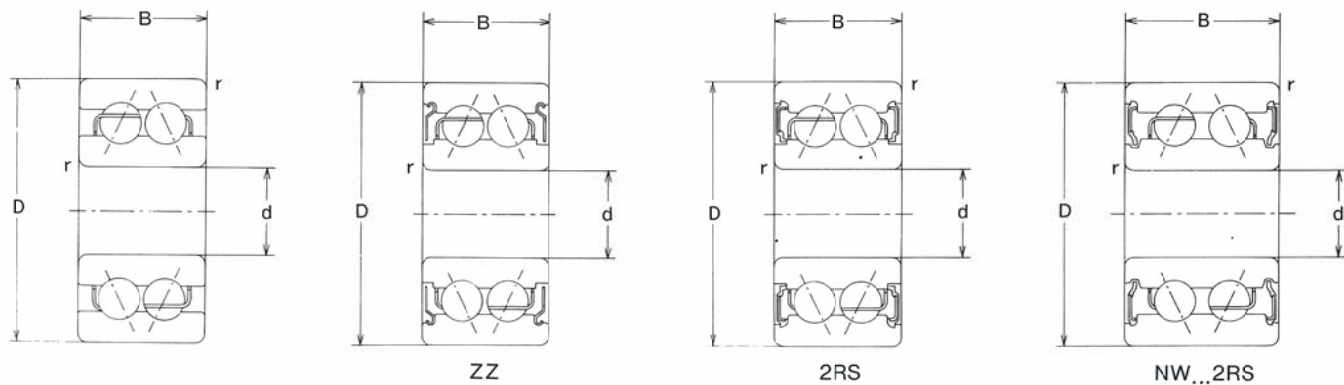
SELF-ALIGNING BALL BEARINGS
23 SERIES



BEARING NUMBER	Dimensions mm inches							
	BORE	O.D.	WIDTH	CHAMFER	BALLS		LOAD RATINGS	
	d	D	B	r min.	NO.	SIZE	DYNAMIC C (kgf/lbf)	STATIC Co (kgf/lbf)
2300 *	10.000	35.000	17.000	0.60	18	6.350	953	205
	.3937	1.3780	.6693	.024		1-4	2101	452
2301 *	12.000	37.000	17.000	1.10	18	7.144	1240	278
	.4724	1.4567	.6693	.043		9-32	2734	613
2302 *	15.000	42.000	17.000	1.10	20	7.144	1250	296
	.5906	1.6535	.6693	.043		9-32	2756	653
2303 *	17.000	47.000	19.000	1.10	20	7.938	1500	365
	.6693	1.8504	.7480	.043		5-16	3307	805
2304 *	20.000	52.000	21.000	1.10	22	8.731	1880	480
	.7874	2.0472	.8268	.043		11-32	4145	1058
2305 ※	25.000	62.000	24.000	1.50	22	10.319	2520	675
	.9843	2.4409	.9449	.043		13-32	5578	1488

* Rubber Seals type available
※ M cage only

DOUBLE ROW ANGURAR CONTACT BALL BEARINGS
52 SERIES
53 SERIES



BEARING NUMBER	Dimensions mm inches							
	BORE	O.D.	WIDTH	CHAMFER	BALLS		LOAD RATINGS	
	d	D	B	r min.	NO.	SIZE	DYNAMIC C (kgf/lbf)	STATIC Co (kgf/lbf)
5200	10.000	30.000	14.30	0.60	14	4.762	730	400
	.3937	1.1811	.5630	.024		3-16	1609	882
NW5200-2RS	10.000	30.000	17.462	0.60	14	4.762	730	400
	.3937	1.1811	.6875	.024		3-16	1609	882
5201 *	12.000	32.000	15.90	0.60	14	5.953	1070	590
	.4724	1.2598	.6260	.024		15-64	2359	1301
5201T1X ※	12.000	32.000	15.90	0.60	18	4.762	865	480
	.4724	1.2598	.6260	.024		3-16	1907	1058
5202 *	15.000	35.000	15.90	0.60	16	5.953	1190	715
	.5906	1.3780	.6260	.024		15-64	2624	1576
5202T1X ※	15.000	35.000	15.90	0.60	18	4.762	865	480
	.5906	1.3780	.6260	.024		3-16	1907	1058
5203	17.000	40.000	17.462	0.60	18	5.556	1170	765
	.6693	1.5748	.6875	.024		7-32	2579	1687
W5203-2RS	17.000	40.000	20.638	0.60	18	5.556	1170	765
	.6693	1.5748	.8125	.024		7-32	2579	1687
5204 *	20.000	47.000	20.60	1.0	16	7.938	2000	1270
	.7874	1.8504	.8110	.040		5-16	1416	2800
5204ZZ	20.000	47.000	20.60	1.0	18	6.747	1620	1090
	.7874	1.8504	.8110	.040		17-64	3571	2403
5205 *	25.000	52.000	20.60	1.0	18	7.938	2170	1500
	.9843	2.0472	.8110	.040		5-16	4791	3307
5205T12ZZ	25.000	52.000	20.60	1.0	20	6.747	1730	1260
	.9843	2.0472	.8110	.040		17-64	3814	2778
5206 *	30.000	62.000	23.80	1.0	18	9.525	3000	2150
	1.1811	2.4409	.9370	.040		3-8	6615	4740
5206ZZ	30.000	62.000	23.80	1.0	18	8.731	2570	1850
	1.1811	2.4409	.9370	.040		11-32	5667	4079
5300T12 ※	10.000	35.000	19.05	0.60	14	5.953	1060	560
	.3937	1.3780	.7500	.024		15-64	2337	1235
5301	12.000	37.000	19.05	1.0	14	6.350	1210	640
	.4724	1.4567	.7500	.040		1-4	2668	1411
5302	15.000	42.000	19.05	1.0	16	6.350	1370	755
	.5906	1.6535	.7500	.040		1-4	3020	1664
5303	17.000	47.000	22.225	1.0	16	7.144	1600	955
	.6693	1.8504	.8750	.040		9-32	3527	2105
5304 *	20.000	52.000	22.20	1.5	14	9.525	2510	1530
	.7874	2.0472	.8740	.059		3-8	5534	3373
5304ZZ	20.000	52.000	22.20	1.5	16	7.938	2010	1300
	.7874	2.0472	.8740	.059		5-16	4432	2866
5305 *	25.000	62.000	25.40	1.5	14	11.112	3350	2110
	.9843	2.4409	1.000	.059		7-16	7387	4653
5305ZZ	25.000	62.000	25.40	1.5	18	8.731	2570	1850
	.9843	2.4409	1.000	.059		11-32	5667	4079

* Open type only.
※ Plastic cage.
ZZ,2RS types related to 52xx series available
<Basic reference 5000, 5001, 508 series available>